

# Audun Botterud

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

2,092  
citations

304743

22  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2139  
citing authors

#	ARTICLE	IF	CITATIONS
1	The value of energy storage in decarbonizing the electricity sector. <i>Applied Energy</i> , 2016, 175, 368-379.	10.1	307
2	Flexible Operation of Batteries in Power System Scheduling With Renewable Energy. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 685-696.	8.8	179
3	Energy Storage Arbitrage Under Day-Ahead and Real-Time Price Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 84-93.	6.5	160
4	Assessment of Impacts of PHEV Charging Patterns on Wind-Thermal Scheduling by Stochastic Unit Commitment. <i>IEEE Transactions on Smart Grid</i> , 2012, 3, 675-683.	9.0	140
5	Time Adaptive Conditional Kernel Density Estimation for Wind Power Forecasting. <i>IEEE Transactions on Sustainable Energy</i> , 2012, 3, 660-669.	8.8	135
6	Demand Dispatch and Probabilistic Wind Power Forecasting in Unit Commitment and Economic Dispatch: A Case Study of Illinois. <i>IEEE Transactions on Sustainable Energy</i> , 2013, 4, 250-261.	8.8	127
7	Impact of battery degradation on energy arbitrage revenue of grid-level energy storage. <i>Journal of Energy Storage</i> , 2017, 10, 56-66.	8.1	97
8	On An Equivalent Representation of the Dynamics in District Heating Networks for Combined Electricity-Heat Operation. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 560-570.	6.5	95
9	Sharing Solar PV and Energy Storage in Apartment Buildings: Resource Allocation and Pricing. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 3963-3973.	9.0	93
10	Stochastic coordinated operation of wind and battery energy storage system considering battery degradation. <i>Journal of Modern Power Systems and Clean Energy</i> , 2016, 4, 581-592.	5.4	80
11	Dynamic Scheduling of Operating Reserves in Co-Optimized Electricity Markets With Wind Power. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 160-171.	6.5	74
12	Additional Capacity Value From Synergy of Variable Renewable Energy and Energy Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 1106-1109.	8.8	71
13	An Improved Stochastic Unit Commitment Formulation to Accommodate Wind Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 2507-2517.	6.5	65
14	Power system decarbonization: Impacts of energy storage duration and interannual renewables variability. <i>Renewable Energy</i> , 2020, 156, 1171-1185.	8.9	58
15	Enhanced representations of lithium-ion batteries in power systems models and their effect on the valuation of energy arbitrage applications. <i>Journal of Power Sources</i> , 2017, 342, 279-291.	7.8	50
16	The long-term impacts of carbon and variable renewable energy policies on electricity markets. <i>Energy Policy</i> , 2019, 131, 53-71.	8.8	50
17	Optimal Wind Power Uncertainty Intervals for Electricity Market Operation. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 199-210.	8.8	49
18	Improving Deployment Availability of Energy Storage With Data-Driven AGC Signal Models. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 4207-4217.	6.5	39

#	ARTICLE	IF	CITATIONS
19	Energy-Storage Modeling: State-of-the-Art and Future Research Directions. IEEE Transactions on Power Systems, 2022, 37, 860-875.	6.5	37
20	Fuzzy Energy and Reserve Co-optimization With High Penetration of Renewable Energy. IEEE Transactions on Sustainable Energy, 2017, 8, 782-791.	8.8	34
21	Temporal Decomposition for Improved Unit Commitment in Power System Production Cost Modeling. IEEE Transactions on Power Systems, 2018, 33, 5276-5287.	6.5	32
22	Resource Adequacy in Electricity Markets With Renewable Energy. IEEE Transactions on Power Systems, 2020, 35, 773-781.	6.5	32
23	Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. IEEE Transactions on Power Systems, 2020, 35, 4324-4334.	6.5	18
24	A Cost-Sharing Approach for Decentralized Electricity Heat Operation With Renewables. IEEE Transactions on Sustainable Energy, 2020, 11, 1838-1847.	8.8	16
25	Stabilizing Energy Communities Through Energy Pricing or PV Expansion. IEEE Transactions on Smart Grid, 2022, 13, 728-737.	9.0	11
26	Decarbonization of the Indian electricity sector: Technology choices and policy trade-offs. IScience, 2022, 25, 104017.	4.1	9
27	Decision Analysis and Uncertainties in Planning Local Energy Systems. , 2006, , .		6
28	Temporal versus stochastic granularity in thermal generation capacity planning with wind power. , 2015, , .		1
29	Flexible operation of batteries in power system scheduling with renewable energy. , 2016, , .		1